

WO 2004/018916 A1



(81) 指定国 (国内): CN, KR, US.

添付公開書類:

— 国際調査報告書

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子(9)と、円筒状ハンドル(1)と、中空ステム(4)と、ピストン押さえ(5、6)とを具備する。ハンドルは、雌ネジ部と、雌ネジ部のピッチより大きいピッチの雄ネジ部とを有し、雄ネジ部がハンドル支持部に形成された雌ネジ部に螺合する。ステムは、外周面にハンドルの雌ネジ部に螺合される雄ネジ部を有し、シリンダー本体内に收容されている。ピストン押さえは、下端面がピストンの上端部と接触するようにステム内に嵌挿され、バネによりピストン側へ付勢されている。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/10525

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F16K7/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F16K7/07

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/46648 A1 (Asahi Organic Chemicals Industry Co., Ltd.), 13 June, 2002 (13.06.02), Figs. 15 to 20 & EP 1253360 A1 & JP 2002-372159 A	1-12
P, A	JP 2002-372159 A (Asahi Organic Chemicals Industry Co., Ltd.), 26 December, 2002 (26.12.02), Figs. 1 to 6 & WO 02/103230 A1 & EP 1253360 A1	1-12
A	JP 45-3264 Y1 (T.V. Valve Co., Ltd.), 13 February, 1970 (13.02.70), Full text (Family: none)	1-12

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to
"A" document defining the general state of the art which is not considered to be of particular relevance	understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 18 November, 2003 (18.11.03)	Date of mailing of the international search report 02 December, 2003 (02.12.03)
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/10525

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 7-103396 A (SMC Corp.), 18 April, 1995 (18.04.95), Full text (Family: none)	1-12